Calculate Case Fatality Rates and Attack Rates



Case Fatality Rate Proportion of cases that resulted in death

- Can be as high as 33%-50% where medical treatment not available
- In developing countries, CFR can be less than 1%, when treatment is optimal
- If the CFR is > 10%
 - are there problems with case management?
 - review treatment routines
 - ensure adequate supplies
 - ► increase community's access to care (consider Temporary Treatment Centers)

Calculate Case Fatality Rate Proportion of cases that resulted in death

Number of Deaths x 100Number of Cases

Example:

100 cases in one week, 10 patients died

$$0.1 \times 100 = 10$$

CFR is 10%

Attack Rate

- Calculated by dividing the number of cases by the population at risk
- Expressed as a percentage
- Severely affected countries have reported national attack rates of > 1% of population
- ARs as high as 20% have been recorded in severe epidemics

Calculate Attack Rate

Example:

Village of 3,000 persons 15 cases of cholera

$$0.005 \times 100 = .5\%$$